



Based on PTO/SB/08 a & b (05-03)

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Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/079,061
				Filing Date	2/20/02
				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	
Sheet	1	of	4	Attorney Docket Number	SPLX.P0126

RELATED U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document Number	Date of filing MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Related Application Data
TD	1.	2002/0133798	12-06-2000	Steven Teig et al.	Present application is a CIP of 2002/0133798.
TD	2.	2002/0100007	12-06-2000	Steven Teig et al.	Present application is a CIP of 2002/0100007.
TD	3.	2002/0073390 S/N 09/737,210	12-13-2000	Steven Teig et al.	Continuation of parent 2002/0133798
TD	4.	Preliminary Amendment S/N 09/737,210	12-13-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0073390 does not accurately reflect the claims of S/N 09/737,210.
TD	5.	S/N 09/737,220	12-13-2000	Steven Teig et al.	Continuation of parent 2002/0133798
TD	6.	S/N 09/737,245	12-13-2000	Steven Teig et al.	Continuation of parent 2002/0133798
TD	7.	S/N 09/739,460	12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
TD	8.	2002/0124231 S/N 09/739,580	12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
TD	9.	Preliminary Amendment S/N 09/739,580	12-15-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0124231 does not accurately reflect the claims of S/N 09/739,580.
TD	10.	S/N 09/739,589	12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
TD	11.	S/N 09/742,171	12-19-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
TD	12.	2003/0121015 S/N 09/745,067	12-19-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
TD	13.	Preliminary Amendment S/N 09/745,067	12-19-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0121015 does not accurately reflect the claims of S/N 09/745,067.
TD	14.	2002/0069397	01-13-2002	Steven Teig et al.	CIP of 2002/0100007 & 2002/0133798.
TD	15.	2002/0157075	02-20-2002	Steven Teig et al.	CIP of 2002/0100007 & 2002/0133798.

Examiner Signature	<i>Murado</i>	Date Considered	3/7/04
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<sup>1</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>2</sup> Applicant's unique citation designation number(optional). <sup>3</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/079,061
				Filing Date	2/20/02
				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	
Sheet	2	of	4	Attorney Docket Number	SPLX.P0126

RELATED U.S. PATENT DOCUMENTS						
TD	16.	2003/0088841 S/N 10/329,241	12-23-2002	Steven Teig et al.	CIP of 2002/0133798	
TD	17.	Preliminary Amendment S/N 10/329,241	12-23-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088841 does not accurately reflect the claims of S/N 10/329,241.	
TD	18.	2003/0018947	12-07-2001	Steven Teig et al.	Application regarding related routing technology	
TD	19.	2002/0147958	10-19-2001	Steven Teig et al.	Application regarding related routing technology	
TD	20.	2003/0079193	12-07-2001	Steven Teig et al.	Application regarding related routing technology	
TD	21.	2003/0063614	01-04-2002	Steven Teig et al.	Application regarding related routing technology	
TD	22.	2003/0064559	01-04-2002	Steven Teig et al.	Application regarding related routing technology	
TD	23.	2003/0063568	01-04-2002	Steven Teig et al.	Application regarding related routing technology	
TD	24.	2003/0101428 S/N 10/040,915	01-05-2002	Steven Teig et al.	Application regarding related routing technology	
TD	25.	Preliminary Amendment S/N 10/040,915	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0101428 does not accurately reflect the claims of S/N 10/040,915.	
TD	26.	2002/0166105 S/N 10/040,948	01-05-2002	Steven Teig et al.	Application regarding related routing technology	
TD	27.	Preliminary Amendment S/N 10/040,948	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0166105 does not accurately reflect the claims of S/N 10/040,948.	
TD	28.	2003/0043827 S/N 10/040,953	01-05-2002	Steven Teig et al.	Application regarding related routing technology	
TD	29.	Preliminary Amendment	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0043827 does not	

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				Group Art Unit	2825
				Examiner Name	
Sheet	3	of	4	Attorney Docket Number	SPLX.P0126

RELATED U.S. PATENT DOCUMENTS					
TD		S/N 10/040,953			accurately reflect the claims of S/N 10/040,953.
TD	30.	2003/0023943 S/N 10/040,954	01-05-2002	Steven Teig et al.	Application regarding related routing technology
TD	31.	Preliminary Amendment S/N 10/040,954	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0023943 does not accurately reflect the claims of S/N 10/040,954.
TD	32.	2003/0066042 S/N 10/040,963	01-05-2002	Steven Teig et al.	Application regarding related routing technology
TD	33.	Preliminary Amendment S/N 10/040,963	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0066042 does not accurately reflect the claims of S/N 10/040,963.
TD	34.	2002/0174412 S/N 10/041,942	01-07-2002	Steven Teig et al.	Application regarding related routing technology
TD	35.	Preliminary Amendment S/N 10/041,942	01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0174412 does not accurately reflect the claims of S/N 10/041,942.
TD	36.	2003/0088844 S/N 10/041,957	01-07-2002	Steven Teig et al.	Application regarding related routing technology
TD	37.	Preliminary Amendment S/N 10/041,957	01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088844 does not accurately reflect the claims of S/N 10/041,957.
TD	38.	2002/0199165 S/N 10/046,864	01-13-2002	Steven Teig et al.	Application regarding related routing technology
TD	39.	Preliminary Amendment S/N 10/046,864	01-13-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0199165 does not accurately reflect the claims of S/N 10/046,864.
TD	40.	2003/0066043	01-13-2002	Steven Teig et al.	Application regarding related routing technology

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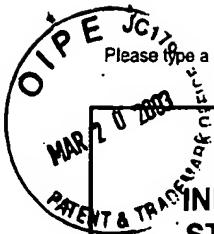
RELATED U.S. PATENT DOCUMENTS						
TV	41.	2003/0115566		01-13-2002	Steven Teig	Application regarding related routing technology
TD	42.	2003/0056187 S/N 10/047,982		01-14-2002	Steven Teig et al.	Application regarding related routing technology
TP	43.	Preliminary Amendment S/N 10/047,982		01-14-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0056187 does not accurately reflect the claims of S/N 10/047,982.
TD	44.	2003/0066044		01-13-2002	Steven Teig et al.	Application regarding related routing technology
TD	45.	2003/0066045		01-13-2002	Steven Teig et al.	Application regarding related routing technology
TD	46.	2003/0088845 S/N 10/047,978		01-13-2002	Steven Teig et al.	Application regarding related routing technology
TD	47.	Preliminary Amendment S/N 10/047,978		01-13-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088845 does not accurately reflect the claims of S/N 10/047,978.

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U.S. PATENTS RELATED TO THE PRESENT APPLICATIONS						
Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Relation to Present Application
	1.	6,516,455	B1	Teig, et al.	02-04-03	CIP of parent application

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TD	2.	2001/0003843	A1	Scepanovic et al.	06-14-01	
TD	3.	4,615,011		Linsker	09-30-86	
TD	4.	5,097,422		Corbin, II et al.	03-17-92	
TD	5.	5,532,934		Rostoker	07-12-96	
TD	6.	5,566,078		Ding et al.	10-15-96	
TD	7.	5,578,840		Scepanovic et al.	11-26-96	
TD	8.	5,634,093		Ashida et al.	05-27-97	
TD	9.	5,636,125		Rostoker et al.	06-03-97	
TD	10.	5,650,653		Rostoker et al.	07-22-97	
TD	11.	5,742,086		Rostoker et al.	04-21-98	
TD	12.	5,757,656		Hershberger et al.	05-26-98	
TD	13.	5,777,360		Rostoker et al.	07-07-98	
TD	14.	5,811,863		Rostoker et al.	09-22-98	
TD	15.	5,822,214		Rostoker et al.	10-13-98	
TD	16.	5,859,449		Kobayashi et al.	01-12-99	
TD	17.	5,898,597		Scepanovic et al.	04-27-99	
TD	18.	5,914,887		Scepanovic et al.	06-22-99	
TD	19.	5,973,376		Rostoker et al.	10-26-99	
TD	20.	6,035,108		Kikuchi	03-07-00	
TD	21.	6,058,254		Scepanovic et al.	05-02-00	
TD	22.	6,068,662		Scepanovic et al.	05-30-00	

Examiner Signature	<i>Murando</i>	Date Considered	3/7/04
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				Group Art Unit	2825
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Sheet	2	of	23	Attorney Docket Number	SPLX.P0126

**U.S. PATENTS RELATED TO THE PRESENT APPLICATIONS**

TD	23.	6,123,736		Pavsic et al.	09-26-00	
TD	24.	6,134,702		Scepanovic et al.	10-17-00	
TD	25.	6,155,725		Scepanovic et al.	12-05-00	
TD	26.	6,175,950		Scepanovic et al.	01-16-01	
TD	27.	6,216,252	B1	Dangelo et al.	04-10-01	
TD	28.	6,230,306	B1	Raspopovic et al.	05-08-01	
TD	29.	6,247,167	B1	Raspopovic et al.	06-12-01	
TD	30.	6,249,902	B1	Igusa et al.	06-19-01	
TD	31.	6,260,179	B1	Ohsawa et al.	07-10-01	
TD	32.	6,262,487	B1	Igarashi et al.	07-17-01	
TD	33.	6,289,495	B1	Raspopovic et al.	09-11-01	
TD	34.	6,301,686	B1	Kikuchi et al.	10-09-01	
TD	35.	6,385,758	B1	Kikuchi et al.	05-07-02	
TD	36.	6,401,234	B1	Alpert et al.	06-04-02	
TD	37.	6,405,358	B1	Nuber	06-11-02	
TD	38.	6,412,097	B1	Kikuchi et al.	06-25-02	
TD	39.	6,436,804	B2	Igarashi et al.	08-20-02	
TD	40.	6,463,575	B1	Takahashi	10-08-02	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code (if known) <sup>5</sup>	MM-DD-YYYY		
TD	41.	JP	64-15947		Ouchi	01-19-89	

**NON PATENT LITERATURE DOCUMENTS**

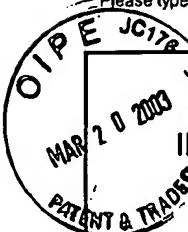
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>6</sup>

Examiner Signature	<i>Mr. Teig</i>	Date Considered	3/7/04
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**NON PATENT LITERATURE DOCUMENTS**

TD	42.	A.H. Farrahi et al., Quality of EDA CAD Tools: Definitions, Metrics and Directions, Quality Electronic Design, 2000, Proceedings of the first International Symposium on March 2000, pp 395-405.
TD	43.	C. Chiang, et al., Wirability of Knock-Knee Layouts with 45° Wires, IEEE Transactions on Circuits and Systems, Vol. 38, Issue 6, pp 613-624, June 1991.
TD	44.	J. Su et al., Post-Route Optimization for Improved Yield Using Rubber-Band Wiring Model, 1997 International Conference on Computer-Aided Design, pp 700-706, November 1997.
TD	45.	J. Vicente, RSR: A New Rectilinear Steiner Minimum Tree Approximation for FPGA Placement and Global Routing, Proceedings of the 24 <sup>th</sup> Euro Micro Conference, pp 192-195, August 1998.
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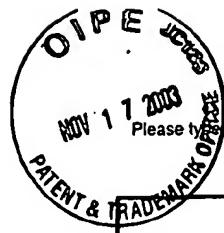
Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Application Number	10/079,061
Sheet 1 of 7				Filing Date	2/20/02
				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	
				Attorney Docket Number	SPLX.P0126

U.S. PATENT DOCUMENTS					
Examiner's Initials	Cite No. <sup>1</sup>	U.S. Patent Document Number	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TD	1. 031	2001/0009	A1 07-19-2001	Nitta et al.	
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				Group Art Unit	2825
				Examiner Name	
Sheet	2	of	7	Attorney Docket Number	SPLX.P0126

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				Group Art Unit	2825
				Examiner Name	
Sheet	3	of	7	Attorney Docket Number	SPLX.P0126

<b>U.S. PATENT DOCUMENTS</b>					
TD	44.	6,567,967	B2	05-20-2003	Greidinger et al.

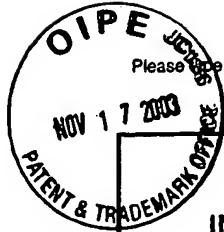
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		Office <sup>2</sup>	Number <sup>4</sup>				Kind Code <sup>3</sup> (if known)
TD	45.	JP	411296560	A	Matsumoto et al.	10-29-1999	with English translation of Abstract;
TD	46.	JP	2000-82743	A	Igarashi et al.	03-21-2000	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.
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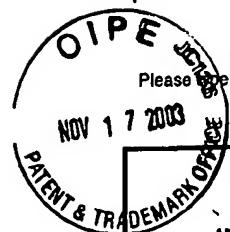
FOREIGN PATENT DOCUMENTS								
TD	50.	JP	H07-86407	A	Shinpei Miura	03-31-1995	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
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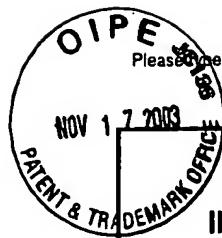
<b>FOREIGN PATENT DOCUMENTS</b>					
<b>NON-PATENT LITERATURE DOCUMENTS</b>					
Examiner's Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
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Examiner Signature	Murdo	Date Considered	3/7/04
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Examiner Signature	<i>Wu</i>	Date Considered	3/7/04
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